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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/474,359	12/29/1999	JEFF C. MORRISS	INTL-0294-US	2154
7590 12/15/2003 TIMOTHY N TROP TROP PRUNER HU & MILES PC 8554 KATY FREEWAY STE 100 HOUSTON, TX 77024			EXAMINER	
			KIM, KEVIN	
			ART UNIT	PAPER NUMBER
			2634 20	
			DATE MAILED: 12/15/2003	

Please find below and/or attached an Office communication concerning this application or proceeding.

· •		Application	on No.	Applicant(s)			
		09/474,35	59	MORRISS, JEFF C.			
	Office Action Summary	Examiner		Art Unit			
		Kevin Y K		2634			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply							
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).							
Status							
	Responsive to communication(s) filed on <u>09-29-2003</u> .						
<u> </u>	,	This action is no		· .			
3) Since this application is in condition for allowance except for formal matters, prosecution as to the ments is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Disposition of Claims							
4)⊠ C	☑ Claim(s) <u>7,13 and 20-27</u> is/are pending in the application.						
48	4a) Of the above claim(s) is/are withdrawn from consideration.						
5)⊠ C)⊠ Claim(s) <u>20-27</u> is/are allowed.						
	B)⊠ Claim(s) <u>7 and 13</u> is/are rejected.						
	claim(s) is/are objected to.						
8) C	claim(s) are subject to restriction	and/or election re	equirement.				
Application Papers							
9) The specification is objected to by the Examiner.							
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.							
Α	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority under 35 U.S.C. §§ 119 and 120							
12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) ☐ All b) ☐ Some * c) ☐ None of: 1. ☐ Certified copies of the priority documents have been received. 2. ☐ Certified copies of the priority documents have been received in Application No 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 13) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application) since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78. a) ☐ The translation of the foreign language provisional application has been received. 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121 since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78.							
Attachment(s			_				
2) Notice of	of References Cited (PTO-892) of Draftsperson's Patent Drawing Review (PTO-94 tion Disclosure Statement(s) (PTO-1449) Paper N		4) Interview Summary (5) Notice of Informal Pa 6) Other:	PTO-413) Paper No(s) stent Application (PTO-152)			
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DETAILED ACTION

Response to Arguments

1. In view of the appeal brief filed on September 29, 2003, PROSECUTION IS HEREBY REOPENED. A new ground of rejection is set forth below.

To avoid abandonment of the application, appellant must exercise one of the following two options:

- (1) file a reply under 37 CFR 1.111 (if this Office action is non-final) or a reply under 37 CFR 1.113 (if this Office action is final); or,
 - (2) request reinstatement of the appeal.

If reinstatement of the appeal is requested, such request must be accompanied by a supplemental appeal brief, but no new amendments, affidavits (37 CFR 1.130, 1.131 or 1.132) or other evidence are permitted. See 37 CFR 1.193(b)(2).

Claim Rejections - 35 USC § 103

- 2. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.
- 3. Claim 7 and 13 are rejected under 35 U.S.C. 103(a) as being unpatentable over Tamura et al (previously cited) in view of Iwamoto et al (US 6,292,040).

Referring to Fig. 11, Tamura et al discloses a data receiver and method comprising data buffers (541 –543) to latch different data bit signals (DD1, DD2, ---, DDn). Fig.14 shows "a first circuit" (5301) generating a skew-indicating signal between each of the data bit signals and a clock (clk), i.e., a strobe signal, and "a second circuit" (5302) coupled to the first circuit (5301) and the data buffers (541 –543) for regulating the latching of the data bit signals by the buffers

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based on the respective skews. And yet Tamura et al is silent on the characteristics of the control signal indicating the skew between the data and clock signals and fails to teach "a register associated with a different one of the data bit signals" in the first circuit. simply shows a control signal from the phase comparator to the dotted box (5302) representing a delay chain circuit, i.e., the "second circuit." There is no teaching how the control signal is used to modify the delay line for the clock signal. Iwamoto et al disclose a technique to the deficiency by teaching a phase comparator circuit whose output is controlling the variable delay via a register. See Fig. 1 and col.8, lines 5-7. Specifically, the comparator has a shift register indicating/storing the degree of skew based on an up/down control signal. See col. It is noted that the up/down signal takes the form of a pulse train signal whose duty cycle represents the skew since the signal is either high or low depending the relative skew of two input signals' phases. Thus, it would have been obvious to one skilled in the art at the time the invention was made to use a phase comparator that produces a pulse train whose duty cycle representing the skew of two inputs and has a shift register indicating the skew to control the variable line for adjusting the clock/strobe signal in Tamura et al's receiver for the purpose of actually implementing the skew correction circuit of Tamural et al, as taught by Iwamoto.

Allowable Subject Matter

4. Claims 20-27 are allowed.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kevin Y Kim whose telephone number is 703-305-4082. The examiner can normally be reached on 8AM --5PM M-F.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Stephen Chin can be reached on 703-305-4714. The fax phone number for the

organization where this application or proceeding is assigned is 703-872-9314.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-305-3900.

kvk

____STEPHEN CHIN

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